



FIGURE 2: Hierarchical task analysis of sales forecasts

More formally, given a scenario and a task analysis we can identify five kinds of discrepancy in (a) tasks in either the task tree or scenario are at a finer granularity than the other (b) similar tasks are present, but when we try to label scenario actions the subtasks do not come in the same task-subtask hierarchy that they are in the normative model (c) tasks which are not on the tree (d) tasks which are necessary and don't occur (e) the order of the tasks.

3. DISCUSSION AND ASSOCIATED RESEARCH

In order to apply this technique to our normative forecasting HTA we are in the process of gathering scenarios of tasks through interviews and observations with managers and users of forecasting software. Similarly to collaborative extensions of standard task analyses, this technique can be extended to analyze group production planning goals in the organization. We believe that this grammar-based use of task analysis models can be applied in other settings in usability research and practice.

ACKNOWLEDGEMENTS

This research is supervised by Professor Robert Fildes (Management School) and Professor Alan Dix (Computing Department) of Lancaster University and is part of a three year interdisciplinary project on the "Effective Design and Use of Forecasting Support Systems for Supply Chain Management", awards number GR/60181/01 and GR/60198/01.

REFERENCES.

- [1] Armstrong, J.S. (2001) *Principles of Forecasting: A handbook for researchers and practitioners*. Kluwer Academic Publishers, Dordrecht.
- [2] Assimakopoulos, V., & Nikolopoulos, K. (2003) Theta intelligent forecasting information system. *Industrial Management and Data Systems*, **103**, 711-726.
- [3] Dix, A., Finlay, J., Abowd, D.G., & Beale, R. (2004) *Human-Computer Interaction*. Pearson-Prentice Hall, Europe.
- [4] Fildes, R., Goodwin, P., & Lawrence, M. (2005) The design features of Forecasting support systems and their effectiveness. *Decision Support Systems*, Article in Press.
- [5] Shepherd, A. (1989) Analysis and training in information technology tasks. In Diaper, D. (Ed), *Task Analysis for Human-Computer Interaction*. Ellis Horwood, Chichester.